

Claims

1. (Currently amended) A method, ~~for classifying an unknown bioactive condition,~~ comprising:
- generating a ~~scenario~~ scenario-to-be-classified by exposing a first biological system to two or more bioactive conditions, including ~~[[the]]~~ an unknown bioactive condition;
 - representing a response of the first biological system, or portion thereof, to the bioactive conditions, ~~where representing the response of the system comprises determining data sufficient to generate by generating~~ a feature space vector;
 - using a database, the database comprising scenarios where each scenario was generated by exposing a second biological system to one or more bioactive conditions, the scenario being represented as feature space vector data;
 - determining software expert parameters, where the expert encodes a function that maps a feature space vector to a scenario;
 - weighting the expert parameters;
 - attempting to ~~classify~~ classifying a scenario by database comparison using the software expert;
- and
- outputting a classification result to a user.
2. (Original) The method according to claim 1 where the system comprises living cells.
- Claims 3-8 (Canceled).
9. (Currently amended) The method according to claim ~~[[7]]~~ 1 where transforming the data comprises:
- determining expert parameters based on extracted data, where experts encode functions that map the feature space vector to a set of scenarios; and
 - tuning the integrated expert.
10. (Previously presented) The method according to claim 9 where tuning the integrated expert comprises adaptive expert calibration.